

Appl. No. 10/541,339
Response Dated June 9, 2008
Reply to Office Action of April 9, 2008

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Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Withdrawn): An aqueous vulcanizable adhesive composition, which comprises a phenol resin emulsion prepared from a water-insoluble phenol resin solution in methyl ethyl ketone and an aqueous water-soluble polymeric substance solution, and a curing agent for phenol resin. resin, the content of methyl ethyl ketone being not more than 10 wt.%.:

Claim 2 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 1, 16, wherein the phenol resin emulsion comprises 5 to 25 wt.% of water-insoluble phenol resin, 0.2 to 6 wt.% of water-soluble polymeric substance, and 3 to 40% of methyl ethyl ketone, the balance being water.

Claim 3 (Canceled):

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Claim 4 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 4, 16, wherein the water-insoluble phenol resin is a novolak type phenol resin or a mixture of a novolak type resin with a resol type phenol resin.

Claim 5 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 4, wherein not more than 200 parts by weight of the resol type phenol resin is used on the basis of 100 parts by weight of the novolak type phenol resin.

Claim 6 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 4, 16, wherein the water-insoluble phenol resin is used as a solution at a concentration of 40 to 60 wt.% in methyl ethyl ketone.

Claim 7 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 4, 16, wherein the water-soluble polymeric substance is polyvinyl alcohol.

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Claim 8 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 1, 16, wherein the water-soluble polymeric substance is acetoacetyl-modified polyvinyl alcohol.

Claim 9 (Previously presented): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 8, wherein the phenol resin emulsion further includes an organometallic compound.

Claim 10 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 1, 16, wherein the curing agent for phenol resin is hexamethylene-tetramine.

Claim 11 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 10, wherein 0.1 to 5 parts by weight of the hexamethylenetetramine is used on the basis of 100 parts by weight of the phenol resin emulsion.

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Claim 12 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 10, wherein water is use together with hexamethylenetetramine.

Claim 13 (Previously presented): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition ~~An aqueous vulcanizable adhesive composition~~ according to Claim 12, wherein not more that 1,000 parts by weight of the water is used on the basis of 100 parts by weight of the phenol resin emulsion.

Claim 14 (Withdrawn): An aqueous vulcanizable adhesive composition according to Claim 1, for used in vulcanization bonding of a metal or resin to rubber.

Claim 15 (Withdrawn): An aqueous vulcanizable adhesive composition according to Claim 14, wherein the rubber is nitrile rubber, hydrogenated nitrile rubber or acrylic rubber.

Claim 16 (Currently amended): A composite of rubber and metal or resin vulcanization bonded by an aqueous vulcanizable adhesive composition, ~~according to Claim 1.~~ said vulcanizable adhesive composition comprising a phenol resin emulsion prepared from a water-insoluble phenol resin solution in methyl ethyl ketone and an aqueous water-soluble polymeric substance solution, and a curing agent for phenol resin, the content of methyl ethyl ketone being not more than 10 wt.%.

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Claim 17 (Withdrawn): A phenol resin emulsion prepared from a water-insoluble phenol resin solution in methyl ethyl ketone and an aqueous water-soluble polymeric substance solution.